APPLICATION FOR PERMIT TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

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	1 R	IN 2 0 2009
	Date of filing in State Engineer's Office	us w V
	Returned to applicant for correction	7 -
	Corrected application filed	Map filed JAN 2 0 2009 under
		778515Nt52:0
The	The applicant <u>United States of America, U. S. Depart</u>	ment of Energy
15		Las Vegas
N1-	Street Address or P.O. Box	City or Town hereby make(s) application for permission to appropriate
	Nevada 89134 State and Zip Code	_
he	he public waters of the State of Nevada, as hereinafter	stated. (If applicant is a corporation, give date and place of
псо	ncorporation; if a copartnership or association give nan	nes of members.)
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2.		me of stream, lake, underground, spring or other sources. exceed 354 acre-feet per year (See Attachment A) second feet
	O	he second foot equals 448.83 gallous per minute.
	(a) If stored in reservoir give number of acre-feet	
3.		nment A) ower, mining, commercial, donoestic or other use. Must limit to one major use.
4.		
	(a) Irrigation, state number of acres to be irrigated	1
	(b) Stockwater, state number and kind of animals	
	(c) Other use (describe fully in No. 12.)	
	(d) Power:	
	(1) Horsepower developed	The second second
	(2) Point of return of water to stream	3746
	(2) I omit of feturii of water to siream	

The water is to be diverted from its source at the following point: (Describe as being within a 40-acre subdivision of public survey, and by churse and distance to a found section corner. If on unsurveyed land, it should be so stated.) Within the SE ¼ NW ¼ of Section 14, T.3N., R.50E., M.D.B. & M. (unsurveyed), or at a point from which the southeast corner of Section 32, T.4N., R.50E., M.D.B. & M., bears N. 0° 21' 14" W. a distance of 16,037 feet.		
(See Basin 156 Map Sheet 2 of 3)		
Place of use: (Describe by tegal subdivision. If on ungurveyed land, it should be so stated.) See Attachment A and Basin 156 Map Sheet 3 of 3.		
7. Use will begin about January 1 and end	about December 31 of each year. Month and Day	
Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) (State manner in which water is to be diverted, i.e. diversion structure, diches and flumes, drilled well with pump and motor, etc.) Drilled and cased well, vertical turbine pump and motor, pipeline, and a temporary holding pond of about 100 x 100 feet deep or smaller.		
9. Estimated cost of works: _\$350,000		
). Estimated time required to construct works: 3 years (If well completed, describe works.)		
Estimated time required to complete the application of water to beneficial use: 10 years		
12. Provide a detailed description of the proposed project and its water usage (use attachments if neces: (Failure to provide a detailed description may cause a delay in processing.)		
See Attachment A (HC-4).		
13. Miscellaneous remarks:		
The United States of America, U.S. Department of Energy	is filing this permit application as a matter of comity.	
	_	
Ned_Larson@ymp.gov E-mail Address	Ned B. Larson	
(700) 704 4454	Signature, applicantor agent	
(702) 794-1454 Phone No.	United States of America, U.S. Dept. of Energy Company Name	
	1551 Hillshire Drive Street Address or P.O. Box	
APPLICATION MUST BE SIGNED BY THE APPLICANT OR AGENT	Las Vegas, NV 89134	
	8 C Clay State, Zip Code 0 Z NYC 6907	

\$250 FILING FEE AND SUPPORTING MAP MUST ACCOMPANY APPLICATION

Revised 11-07

ATTACHMENT A

Water Appropriation Permit Application Supplemental Information

YMP Well Identifier HC-4:

This application to temporarily appropriate the waters of the State of Nevada is being filed by the United States of America, U.S. Department of Energy (DOE) in order to provide water for meeting the DOE's responsibilities under the <u>Nuclear Waste Policy Act of 1982</u>, as amended. This application is being filed to appropriate water for the construction of a rail line to Yucca Mountain, which will probably take up to 10 years, but may take longer depending on funding and other issues. Once construction is completed the permit will be withdrawn.

Item 2. The total annual duty from 7 points of diversion applied for in Basin 156 will not exceed 354 acrefeet per year. It is anticipated that the total use of water within Basin 156 during the construction period will not exceed 416 acre-feet. An annual duty that is near the maximum anticipated need is requested because it is likely that a large proportion of the total water demand will be used during the first one to two years of construction.

<u>Item 3</u>. Construction uses will include, but are not limited to, geotechnical and hydrological investigations, road construction, facility construction, rail construction, dust suppression, quarry operations, construction camp operations, and other related site uses.

<u>Item 6</u>. The place of use is any portion of Sections that are within one-half mile of the rail alignment, access roads, and facilities within the basin of origin and adjacent basins, as shown in Basin 156 Map Sheet 3 of 3. The place of use is defined as all quarter-quarter sections within the following sections:

<u>T.4N., R.49E.</u>, Sections: 25, 26, 34, 35, 36; <u>T.4N., R.49½E.</u>, Sections: 25, 26, 27, 34, 35, 36; <u>T.4N., R.50E.</u>, Sections: 21, 28, 30, 31, 33; <u>T.3½N., R.50E.</u>, Sections: 33, 34, 35, 36; <u>T.3N., R.48E.</u>, Sections: 13, 23, 24, 25, 26, 27, 34, 35; <u>T.3N., R.49E.</u>, Sections: 2, 3, 4, 5, 7, 8, 9, 17, 18, 19; <u>T.3N., R.50E.</u>, Sections: 1, 2, 3, 4, 10, 11, 12, 13, 14, 15, 23, 24, 25, 26, 35, 36; <u>T.2N., R.47E.</u>, Sections: 25, 35, 36; <u>T.2N., R.48E.</u>, Sections: 3, 4, 8, 9, 10, 16, 17, 18, 19, 20, 30, 31; <u>T.1N., R.50E.</u>, Sections: 1, 2, 11, 12, 13, 14, 22, 23, 24, 25, 36; <u>T.2N., R.51E.</u>, Sections: 18, 19, 30, 31; <u>T.1N., R.46E.</u>, Sections: 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36; <u>T.1N., R.47E.</u>, Sections: 1, 2, 3, 10, 11, 15, 16, 20, 21, 22, 28, 29, 30, 31, 32; <u>T.1N., R.50E.</u>, Sections: 1; <u>T.1N., R.51E.</u>, Sections: 6, 7, 8, 17, 18, 20, 21, 27, 28, 29, 33, 34, 35; <u>T.1S., R.51E.</u>, Sections: 25, 35, 36; <u>T.1S., R.51½E.</u>, Sections: 18, 19, 29, 30, 31, 32; <u>T.1S., R.53E.</u>, Sections: 25, 35, 36; <u>T.1S., R.54E.</u>, Sections: 19, 30; <u>T.2S., R.51½E.</u>, Sections: 4, 5, 6, 7, 8, 9, 16, 17, 18; <u>T.2S., R.52E.</u>, Sections: 7, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24; <u>T.2S., R.53E.</u>, Sections: 1, 2, 3, 7, 8, 9, 10, 11, 15, 16, 17, 18.

Item 12. The DOE will construct a 333-mile-long railroad from the existing Union Pacific mainline in Caliente, Nevada to Yucca Mountain. That railroad will be used to transport spent nuclear fuel, high-level radioactive waste, and other materials to a geologic repository at Yucca Mountain. The DOE will also allow commercial shippers to use the rail line to ship general freight, subject to obtaining a Certificate of Public Convenience and Necessity from the Surface Transportation Board and other necessary regulatory approvals.

Up to 103 wells will be used along the rall line to obtain the approximately 6,000 acre-feet of groundwater required for construction of the railroad. DOE anticipates that about 90 percent of the water will be needed at some time during the first one to two years of construction for compaction of the rail roadbed and for dust suppression. The remainder of the water will be used throughout the construction phase for the activities described in Item 3 above. It is likely that all wells within a basin will be operated during the six- to twelve-month period when the roadbed is being constructed within a basin. Fewer wells may be operated within a basin, and likely will be pumped at a lower rate, during the remainder of construction.

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